REMARKS

35 USC § 112

The Examiner rejected claims 1-21 rejected under 35 USC § 112 for failing to recite active, positive method steps (final office action, page 1, last line, and page 2, lines 1-2). The applicant disagrees, especially in view of amended claim 1. As amended herein, claim 1 now recites "... wherein the additive substantially binds to the cells and the particles and wherein the particles substantially bind to the cells and the additive..."

Claims 13-21 were rejected under 35 USC § 112 for reciting improper multiple dependent claims. The applicant disagrees, but nevertheless claims 13-21 have been amended according to the examiners suggestion.

New Matter

Claim 4 was rejected under 35 USC § 112 as containing subject matter which was not described in the specification. The applicant disagrees, especially in view of amended claim 4. Amended claim 4 recites, "... the vessel has at least one wall that yields to pressure." The term "flexible" is defined in standard dictionaries as "yielding to pressure". Thus, the amendment to claim 4 is literally supported in the specification on page 6, lines 9-10.

35 USC § 103

Claims 1-21 were rejected under 35 USC § 103(a) as being obvious over *Doshi et al.* in view of *Kelland et al.* for reasons of record. The applicant disagrees, especially in view of amendments herein to claim 1. Amended claim 1, and all of claims 2-21 by virtue of their dependence on amended claim 1, recites the limitation "... receiving the sample in a vessel, wherein the vessel retains the sample within a plurality of confining walls..."

Doshi et al. teach an apparatus for red blood cell separation in which "... an absorbent pad is impregnated with a mixture of a lectin and beads of acrolein/iron oxide which have been coated with a lectin..." (column 16, lines 11-13). The Doshi et al. reference does not teach, suggest, or provide motivation utilizing a vessel, wherein the vessel retains the sample within a plurality of

<u>confining walls</u>. An absorbent pad is inconsistent with a vessel that retains a sample within a plurality of confining walls.

As a secondary argument, amended claim 1 further recites the limitation to separate "...the network from the substantially cell depleted portion by applying a force, wherein the <u>force comprises a magnetic force</u>." With respect to the magnetic force limitation in amended claim 1, the MPEP2143.03 states:

"...To establish prima facie obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. In re Royka, 490 F.2d 981, 180 USPQ 580 (CCPA 1974)..."

"...Doshi et al. explicitly teach filtration as a means of separation (e.g., column 15, lines 51-55, or column 21, claim 1, "primary filter"). There is simply no teaching, suggestion, or motivation in the *Doshi* reference to separate the network by employing a magnetic force. Even if the Office would argue that *Doshi's* teaching of magnetizable beads inherently discloses a magnetic separation, the MPEP requires in section 2112:

... The fact that a certain result or characteristic may occur or be present in the prior art is not sufficient to establish the inherency of that result or characteristic. In re Rijckaert, 9 F.3d 1531, 1534, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993); ... In re Oelrich, 666 F.2d 578, 581-82, 212 USPQ 323, 326 (CCPA 1981); and "... In relying upon the theory of inherency, the examiner must provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art..."

The use of magnetizable beads is disclosed by *Doshi et al.* However, *Doshi et al.* teach that "...non-limiting examples include ...silica, ...glass beads, ...agaraose..." (column 9, lines 14-16), that "...many other inert particles that permit absorption, adsorption or immobilization of ...agglutinating agents...can also be used as nucleating particles..." (column 9, lines 19-23), and that "...many particles can be used, and the invention is not limited to any specific particles..." (column 9, lines 28-30). *Doshi's* description of the particles and his explicit teaching of filtration as the means of separation do not reasonably support the allegation that a magnetic separation of the particles necessarily flows from the reference.

With respect to the *Kelland* reference, amended claim 1, and all of claims 2-21 by virtue of their dependence on amended claim 1, recite the limitation "...receiving the sample in a vessel, wherein the vessel retains the sample within a plurality of confining walls..."

Kelland teaches a method and apparatus for continuous magnetic separation of particles in a particle stream, in which "...particles in a slurry are continuously separated ...by passing the slurry through a separator" (column 3, lines 52-55). Kelland does not teach, suggest, or provide motivation to employ a vessel, wherein the vessel retains the sample within a plurality of confining walls. In contrast, in order to continuously separate the particles, Kelland's separator must allow the sample to flow through the vessel, which is inconsistent with the presently claimed limitation of retaining the sample.

The office further argues that (a) *Kelland* teaches the capacity of his method to separate particles according to magnetic susceptibility, independent of density, size and shape, such as the agglutinated cells in the method of *Doshi*, and (b) *Kelland* inherently teaches that his method can be utilized to separate larger elements, i.e., aggregates, cellular networks, etc. (page 6, first paragraph).

The Examiner correctly recognizes that *Kelland's* separation can be applied to magnetic separation of particles according to the particles magnetic susceptibility, independent of density, size, and shape of the particles. However, a particle of any density, size or shape is not a network. There is no support for the alleged separation of a network of particles (the agglutinated cells in the method of *Doshi*), and the applicant would appreciate if the Examiner could point out which part in *Kelland's* specification would support that notion.

With respect to the inherency argument, MPEP 2112 applies, which requires the examiner to provide a basis in fact and/or technical reasoning to reasonably support the determination that the allegedly inherent characteristic necessarily flows from the teachings of the applied prior art (vide supra). Kelland teaches a continuous separation of particles, wherein the separation is independent from density, size or shape of the particles. Kelland does not teach a formation of a cell containing network, let alone a separation of the network. A magnetic

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cell containing network, let alone a separation of the network. A magnetic separation of individual particles does not necessarily imply a separation of a network of particles.

Thus, amended claim 1 and claims 2-21 by virtue of their dependence on claim 1 are non-obvious over *Doshi et al.* in view of *Kelland*.

REQUEST FOR ALLOWANCE

Claims 1-21 are pending in this application. The applicant requests allowance of all pending claims.

Respectfully submitted,

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